

Claims

What is claimed is:

- 5 1. A modulation stage for signal shaping comprising:
means for preliminary noise-shaping of an input signal; and
means for discrete-time sampling having a predetermined sampling frequency,
the sampling means coupled to the noise-shaping means to produce an output signal
with a lower transition rate with respect to said sampling frequency by a
predetermined multiple.
- 10 2. A modulation stage for signal shaping of claim 1 wherein the means for
discrete-time sampling further comprises means for suppressing sampling of the input
signal for a set number of clock cycles.
- 15 3. A modulation stage for signal shaping of claim 2 wherein the means for
suppressing comprises means for detecting a transition in the output signal.
4. A H-bridge controller wherein its outputs consist of three states.
- 20 5. A H-bridge controller of claim 4 wherein the gating mechanism for each leg is
independently controlled.
- 25 6. A digital amplifier comprising:
a modulation stage for signal shaping; and
a H-bridge controller wherein its outputs consist of three states.